

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on:

May 7, 2002, 12:00:48 ; Search time 53.91 Seconds

(Without alignments)  
175.874 Million cell updates/sec

Perfect score: 655

Sequence: 1 MDFQYQIFSPILLISAVILS.....

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 522463 seqs, 74073290 residues

Total number of hits satisfying chosen parameters:

52463

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000Post-processing: Minimum Match 0%  
Maximum Match 0%  
Listing first 45 summaries

Database : A\_Geneseq\_1101:\*

1: /SIDS8/gcdata/geneseq/geneseq/AA1980.DAT:\*

2: /SIDS8/gcdata/geneseq/geneseq/AA1981.DAT:\*

3: /SIDS8/gcdata/geneseq/geneseq/AA1982.DAT:\*

4: /SIDS8/gcdata/geneseq/geneseq/AA1983.DAT:\*

5: /SIDS8/gcdata/geneseq/geneseq/AA1984.DAT:\*

6: /SIDS8/gcdata/geneseq/geneseq/AA1985.DAT:\*

7: /SIDS8/gcdata/geneseq/geneseq/AA1986.DAT:\*

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9: /SIDS8/gcdata/geneseq/geneseq/AA1988.DAT:\*

10: /SIDS8/gcdata/geneseq/geneseq/AA1989.DAT:\*

11: /SIDS8/gcdata/geneseq/geneseq/AA1990.DAT:\*

12: /SIDS8/gcdata/geneseq/geneseq/AA1991.DAT:\*

13: /SIDS8/gcdata/geneseq/geneseq/AA1992.DAT:\*

14: /SIDS8/gcdata/geneseq/geneseq/AA1993.DAT:\*

15: /SIDS8/gcdata/geneseq/geneseq/AA1994.DAT:\*

16: /SIDS8/gcdata/geneseq/geneseq/AA1995.DAT:\*

17: /SIDS8/gcdata/geneseq/geneseq/AA1996.DAT:\*

18: /SIDS8/gcdata/geneseq/geneseq/AA1997.DAT:\*

19: /SIDS8/gcdata/geneseq/geneseq/AA1998.DAT:\*

20: /SIDS8/gcdata/geneseq/geneseq/AA1999.DAT:\*

21: /SIDS8/gcdata/geneseq/geneseq/AA2000.DAT:\*

22: /SIDS8/gcdata/geneseq/geneseq/AA2001.DAT:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	655	100	0	AAG66542
2	609	93	0	Humanised anti-CTLA4
3	600	91	6	Humanized 5C7.29 a
4	600	91	6	Anti-human VEGF re
5	599	91	5	Anti-human Fit-1 a
6	593	90	5	Humanised 1B10 a
7	590	90	1	Humanised light ch
8	590	90	1	RF1 human Ab L cha
9	590	90	1	Anti-GM2 light cha
10	587	89	6	Intermediate sequ
11	587	89	6	Anti-human VEGF re

8

## SUMMARIES

1	AAW73179	Humanised anti-gangli
2	AAW73180	Human chimeric ant
3	AAW28375	Human chimeric ant
4	AAW28376	Human used light ch
5	AAW73181	Fragment of gangli
6	AAW73182	Human chimeric ant
7	AAW73183	Anti-human VEGF re
8	AAW73184	Anti-human Fit-1 a
9	AAW73185	Fragment of gangli
10	AAW73186	Human chimeric ant
11	AAW73187	Human chimeric ant
12	AAW73188	Fragment of gangli
13	AAW73189	Human chimeric ant
14	AAW73190	Light chain of gan
15	AAW73191	Human chimeric ant
16	AAW73192	Light chain of gan
17	AAW73193	Human chimeric ant
18	AAW73194	Light chain of gan
19	AAW73195	Human chimeric ant
20	AAW73196	Light chain of gan
21	AAW73197	Human chimeric ant
22	AAW73198	Human chimeric ant
23	AAW73199	Human chimeric ant
24	AAW73200	Light chain vari
25	AAW73201	Light chain of gan
26	AAW73202	Fragment of gangli
27	AAW73203	Human chimeric ant
28	AAW73204	Light chain of gan
29	AAW73205	Human chimeric ant
30	AAW73206	Humanised A5B57.1
31	AAW73207	Mouse antibody 26
32	AAW73208	Chimeric anti-CEA
33	AAW73209	Anti-human VEGF re
34	AAW73210	Anti-human Fit-1 a
35	AAW73211	VL425 antibody Clo
36	AAW73212	Murine mAb-bet a
37	AAW73213	Humanised light ch
38	AAW73214	Light (kappa) chai
39	AAW73215	Murine anti-b-prot
40	AAW73216	Mouse 5C7/29 monoc
41	AAW73217	Mouse 5C7/29 monoc
42	AAW73218	AAW73218
43	AAW73219	AAW73219
44	AAW73220	AAW73220
45	AAW73221	AAW73221

## ALIGNMENTS

RESULT 1	AAW66542	standard; Protein; 128 AA.
ID XX		
AC XX		
XX AC		
XX XX		
DT 22-OCT-2001 (first entry)		
XX DE		
XX KW		
KW Human; CTLA4; cytotoxic T lymphocyte associated antigen 4; anti-CTLA4; immunosuppressive; immunomodulator; antiallergic; vaccine; antibody; T cell; humanised antibody; autoimmune disorder; graft rejection; allergy; light chain.		
XX XX		
OS OS		
OS Mus musculus.		
OS OS		
OS Synthetic.		
XX PN		
XX WO200154732-A1.		
XX PD		
XX 02-AUG-2001.		
PP 26-JAN-2001; 2001WO-US02653.		
XX PR 27-JAN-2000; 2000US-0178473.		
PA (GEMY ) GENETICS INST INC.		
XX PI Carreno BM, Wood C, Turner K, Collins M, Gray GS, Morris D;		
PI O'Hara D, Hinton P, Tsurushita N;		
DR XX		
DR WPI; 2001-483195/52.		
DR N-PSDB; AAH76440/ AAH76442.		

/note= "complementarity determining region"

XX Novel antibody-toxic group conjugate comprising an antibody that  
PT recognizes a molecule expressed only on activated T cells, useful for  
PT modulating immune response for treating autoimmune disorder, allergic  
PT response -  
XX  
PS Claim 14; Fig 9; 123PP; English.  
XX The invention relates to an antibody-toxic group conjugate comprising  
CC an antibody that specifically recognises a molecule expressed only on  
CC activated T cells, and a toxic group. The T cell molecule is  
CC preferably human cytotoxic T-lymphocyte associated antigen 4 (CTLA4).  
CC The antibody of the invention is a humanised anti-CTLA4 antibody  
CC comprising a sequence of 138 or 142 amino acids fully defined in the  
CC sequence. The antibody-toxic group conjugate is useful for  
CC modulating the immune response in a subject suffering from a disorder  
CC or condition such as autoimmune disorder, immune response to a graft,  
CC allergic response or an immune response to a therapeutic protein.  
CC The antibody is also useful for research purposes, e.g., in staining  
CC and isolating CTLA4-bearing cells. The antibody is also useful for  
T-cell typing, for isolating specific IL-2 receptor-bearing cells or  
fragments of the receptor, for vaccine preparation, and for determining  
the effectiveness of an agent to down-regulate CTLA4 activity. The  
present sequence is the light chain of humanised anti-CTLA4  
CC antibody.  
XX Sequence 128 AA:  
SQ

Query Match 100.0%; Score 655; DB 22; Length 128;  
Best Local Similarity 100.0%; Pred. No. 1.1e-41; Indels 0; Gaps 0;  
Matches 128; Conservative 0; Mismatches 0;  
QY 1 MDFQYQITFELLISAVSILSRDIQMTQSPSSLSASVGDRVITRGATSSATTTMSWYQK 60  
Db 1 mdfqvqifellisavslsrqdiqmtqspsslsasvgdrvitgatssatttmswqk 60  
QY 61 PGKAPKLILYDTSNLASGPVSRSGSGSGTDXLTISLOPEDFATYYCQWSSYPLTGF 120  
Db 61 pgkapklliydtsnlasgpvsrsgsgsgtqdytislopedfatyycqwssypltfq 120

QY 121 GGTKVBIK 128  
Db 121 ggtkviek 128

RESULT 2  
AAR90684 standard; protein; 128 AA.

AAR90684;

DT 16-AUG-1996 (first entry)

DE Humanized 5C7.29 antibody light chain variable region.  
XX Humanized 5C7.29 antibody light chain variable region;  
KW p-selectin binding agent; E-selectin binding agent; diagnosis;  
KW therapy; inflammation; ischaemia-reperfusion injury; trauma;  
KW adult respiratory distress syndrome; stroke; sepsis; psoriasis;  
KW autoimmune disease; affinity purification; drug screening;  
KW anti-idiotypic antibody generation.  
XX  
OS Synthetic.

XX Location/Qualifiers  
FH 23..128  
FT /note= "humanized antibody mature light chain"  
FT 46..55  
FT /note= "complementarity determining region"  
FT 71..77  
FT /note= "complementarity determining region"  
FT 110..118

FT XX WO9514324-A1.  
PN XX  
PD 21-DEC-1995.  
PF 07-JUN-1995;  
XX 95WO-US07302.  
PR 14-JUN-1994;  
XX 94US-0259963.  
PA (PROT-) PROTEIN DESIGN LABS INC.  
PI Berg EL;  
XX  
WPI; 1996-049423/05.  
DR N-PSDB; AAT15537.

CC Monoclonal and humanised antibodies having specificity for P- and  
CC E-selectin - useful for treatment of inflammatory diseases, e.g.  
PT E-selectin - useful for treatment injury, psoriasis, etc.  
PT ischaemia-reperfusion

CC Claim 13; Fig 8A; 89PP; English.

PS This humanized 5C7.29 antibody light chain variable region, together  
XX with the corresponding heavy chain variable region (see AAR0685),  
CC results in a humanized antibody that specifically binds to P- and E-  
CC selectin and inhibits the binding of selectins to a counterreceptor  
CC of the selectins. The humanized light chain variable region  
CC contains complementarity determining regions (CDRs) having amino  
CC acid sequences from non-human antibody light chain and consists of a  
CC variable region framework sequence substantially identical to a  
CC human light chain variable region framework sequence. The humanized  
CC antibody may be used in the diagnosis and therapy of inflammation  
CC and conditions such as ischaemia-reperfusion injury, adult  
CC respiratory distress syndrome, trauma, stroke, sepsis, psoriasis  
CC and autoimmune disease. It may also be used in affinity  
CC purification of selectin and cells, generation of anti-idiotypic  
CC antibodies, and in the screening of therapeutic agents having the  
CC same binding specificity as a cross-reacting antibody.

XX Sequence 128 AA:  
SQ

Query Match 93.0%; Score 609; DB 17;  
Best Local Similarity 93.0%; Pred. No. 2.9e-38; Length 128;  
Matches 119; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 MDFQYQITFELLISAVSILSRDIQMTQSPSSLSASVGDRVITRGATSSATTTMSWYQK 60  
Db 1 mdfqvqifellisavslsrqdiqmtqspsslsasvgdrvitgatssatttmswqk 60  
QY 61 PGKAPKLILYDTSNLASGPVSRSGSGSGTDXLTISLOPEDFATYYCQWSSYPLTGF 120  
Db 61 pgkapklliydtsnlasgpvsrsgsgsgtqdytislopedfatyycqwssypltfq 120

XX Sequence 128 AA:  
SQ

Query Match 93.0%; Score 609; DB 17;  
Best Local Similarity 93.0%; Pred. No. 2.9e-38; Length 128;  
Matches 119; Conservative 3; Mismatches 6; Indels 0; Gaps 0;

QY 1 MDFQYQITFELLISAVSILSRDIQMTQSPSSLSASVGDRVITRGATSSATTTMSWYQK 60  
Db 1 mdfqvqifellisavslsrqdiqmtqspsslsasvgdrvitgatssatttmswqk 60  
QY 61 PGKAPKLILYDTSNLASGPVSRSGSGSGTDXLTISLOPEDFATYYCQWSSYPLTGF 120  
Db 61 pgkapklliydtsnlasgpvsrsgsgsgtqdytislopedfatyycqwssypltfq 120

RESULT 3  
AAV77597  
ID AAV77597 standard; peptide; 128 AA.

XX  
AC AAV77597;  
XX  
XX 08-MAY-2000 (first entry)  
DT  
XX Anti-human VEGF receptor Fit-1 antibody related peptide sequence #92.  
DE  
XX  
XX Antibody; human; vascular endothelial growth factor; VEGF receptor;  
KW  
KW Fit-1; neovascularisation; cell proliferation; metastasis; tumour;  
KW rheumatoid arthritis; retinopathy; psoriasis.

**Mus musculus.**

XX PR 17 - JUN - 1999; 99JP-0171709.  
XX PA (KYOW ) KYOWA HAKKO KOGYO KK  
XX PI Shitara K, Shibuya M;

WPI: 2001-080847/09.  
N-PSDB; AAF70222.

Substances binding to human vascular endothelial growth factor receptor arteriosclerosis, cancer and delayed human antibody diseases,

Example 3; Page 156; 164pp; Japanese

This invention relates to a reagent for detecting differentiation of monocytes and macrophages from haemopoietic stem cells, containing a substance which binds to human vascular endothelial growth factor (VEGF) receptor Flt-1. The invention also includes a vascular endothelial growth factor (VEGF).

Claim 27; Page 200-201; 210pp; Japanese.

The invention relates to a gene recombinant antibody that has specific reaction with human vascular endothelial growth factor (VEGF) receptor Flt-1. The antibodies are useful for diagnosis and as remedies for diseases due to abdominal neovascularisation of solid tumor, such as proliferation or metastasis of solid tumor, arthritis in rheumatoid arthritis, diabetic retinopathy, premature retinopathy and psoriasis.

Sequence 128 AA:

... sequences. Protein sequences NAB78848 - AAB78870 represent fragments of the anti-human Flt-1 antibody.

Query	Match	Best Local Similarity	Score	DB	Length
Qy	1 MDFVOQIFSFLJISAVILSRDQIQTQSPSSLSAVGDRITITCSATSSITTYMWYQK	91.6%	600	22;	128;
Db	1 mdfqvifslisavilsrqdqmtqspsslsavgdritcsatssitwyqk	91.4%	Pred. No. 1	3e-37;	
Qy	2 PGKAPKLITYDTNSLAVGSPRSFEGSGGDTYLTISLQPEDATYKCOQWSSYPLTRG	91.6%	600	22;	128;
Db	61 pgkapklliydtkslpqgpqrfsqsgydfitissiqpedatyyqgqwsnnpttg	91.1%	Mismatches	6;	
Qy	3 121 GTKVEIK	91.1%	0	0;	Gaps
Db	121	0	Indels	0	0

AAB78866  
ID AAB78866 standard; Protein; 128 AA.  
XXX

ADB788CC

AAB/8866;

20 = 1000 - 2000

20-APR-2001 (first entry)

AAW41398;  
02-JUN-1998 (first entry)  
Humanised antibody 806.077 variable light chain.  
Anti-CEA antibody; carcinoembryonic antigen; 806.077 Ab; cancer therapy;  
cancer diagnosis; complementarity determining region; Fd chain.  
Chimeric - *Homo sapiens*.  
Chimeric - *Mus* sp.

16-JUN-2000; 2000WO-JP03957



XX WPI; 1994-126857/16.  
 DR N-PSDB; AAQ77823.  
 XX Humanized antibody specific for ganglioside GM2 - used for  
 PT producing a cytotoxic effect on cancers such as melanoma,  
 PT neuroblastoma and glioma.  
 XX Example 2; Page 122-123; 191pp; English.  
 XX REI was used as human Ab L chain variable region-encoding  
 CC DNA to which CDRs were to be transplanted. DNAs given in  
 CC a DNA, hkw796L (AAQ77823).  
 XX Sequence 133 AA;  
 SQ Sequence 133 AA;

Query Match Score 90.1%; Score 590; DB 20; Length 133;  
 Rest Local Similarity 89.8%; Pred. No. 7.5e-37;  
 Patches 115; Conservative 6; Mismatches 7; Indels 0; Gaps 0;

QY 1 MDFQVQIFSPILLASVILSRGDIQMTQSPSSLSASVGDRVTITCSAATSSITYMSWYQK 60  
 Db 1 mhfqvqifspillasvilmrgdiquitqspssisasygdrvtitcsaasssvymhwqk 60

QY 61 PGKAPKLLIYDTSNLASGVPSRFSGSGSGTDTYLTISLQPEDFATYQCOQNSYPITFG 120  
 Db 61 pgkakpliylstsnlasgvpsrfsgsjsqtdfttisslqpediatyqcoqnsyptfg 120

QY 121 GGTKEVK 128  
 Db 121 ggtkevk 128

RESULT 9  
 ID AAY28371 standard; Protein; 133 AA.  
 XX  
 AC AAY28371;  
 XX DT 04-NOV-1999 (first entry)  
 DE AAY28371  
 XX Intermediate sequence in the construction of human antibodies.  
 AC AAY28371;  
 XX KW immunoglobulins; antibody; chimeric; vector; expression;  
 KW light chain; heavy chain; amino acid.  
 XX OS Mammalia sp.  
 PN US5939532-A.  
 XX PD 17-AUG-1999.  
 PA (KYOW ) KYOWA HAKKO KOGYO KK.  
 XX PF 07-JUN-1995; 95US-0483528.  
 PN 07-JUN-1995; 95US-0483528.  
 XX PR 07-SEP-1993; 93US-0116778.  
 PA (KYOW ) KYOWA HAKKO KOGYO KK.  
 XX PI Hanai N, Hasegawa M, Koike M, Kuwana Y, Nakamura K;  
 PI Shitara K;  
 XX DR WPI; 1999-468416/39.  
 DR N-PSDB; AAQ99497.  
 XX PT Chimeric human antibody expression vectors  
 XX PS Disclosure; Column 109; 188pp; English.  
 XX CC This sequence is forms a stage in the production of anti-GM2 human  
 CC chimeric antibodies.  
 CC PS Example 2; Column 159-161; 188pp; English.  
 CC This is the ligation product formed when peptide fragments AAY28390 to  
 CC AAY28392 replace the complementarity determining regions of REI.



Query Match	89.6%	Score 587;	DB 22;	Length 126;		
Best Local Similarity	90.6%	Pred. No. 1.2e-36;				
Matches	116;	Conservative	5;	Mismatches	5;	Indels 2;
Db	1 MDFQVIFSPFLISAVILSRGDIQMTQSPSSLSASVGDRYITC SATSSITYMSWYQQK 60					
Db	1 mdfqvfifspflisavilsrqdiqmtspsslsasvgdrvtcsasssvsymhwyyqqk 60					
Qy	61 PGKAPKLILYDTSNLASGVPSPRSFGSGSGTDTLTISSQPEDFAVYCCQWSSYPLTFC 120					
Db	61 pgkapklliyrtsnlasgvpstsgsqtsgsqtldtissqpedfatyccqwsmy-tifg 118					
Qy	121 GGTKEIK 128					
Db	119 qgtkeik 128					
Db	119 qgtkeik 126					
RESULT 13						
AAW73179	12					
AAW73179 standard;	Protein;	130 AA.				
AAW73179;						
XX						
DT	22-JAN-1999	(first entry)				
XX						
DE	Fragment of ganglioside GM2 targeting antibody.					
XX						
KW	Ganglioside GM2; antibody; complementarity determining region; cancer; anti-tumour agent.					
XX						
KW	Ganglioside GM2; antibody; complementarity determining region; cancer; anti-tumour agent.					
XX						
OS	Homo sapiens.					
XX						
PN	JP10257893-A.					
XX						
PD	29-SEP-1998.					
XX						
PF	19-MAR-1997;	97.JP-0066981.				
XX						
PR	19-MAR-1997;	97.JP-0066981.				
XX						
PA	(KYOW ) KYOWA HAKKO KOGYO KK.					
XX						
DR	WPI; 1998-575904/49.					
DR	N-PSDB; AAV08056.					
XX						
PT	A human type complementarity determining region transplanted					
PR	antibody against ganglioside GM2 - useful as an anti-tumour agent					
XX						
PR	and as a diagnostic for related cancers					
XX						
PS	Example 3 ; Page 39; 66pp; Japanese.					
XX						
CC	This sequence is a fragment of an antibody of the invention.					
CC	The antibody of the invention is a human complementarity determining					
CC	region transplanted antibody that reacts specifically with ganglioside					
CC	GM2. DNA encoding the antibody, and vectors and transformants containing					
CC	CC antibody itself can be used for the recombinant production of the antibody. The					
CC	CC antibody itself can be used as an anti-tumour agent or as a diagnostic					
CC	CC tool for related cancers. The antibody has antitumour activity against					
SQ	XX	Sequence 130 AA;				
Query Match	89.2%	Score 584;	DB 19;	Length 130;		
Best Local Similarity	89.1%	Pred. No. 2e-36;				
Matches	114;	Conservative	6;	Mismatches	8;	Indels 0;
Db	1 MDFQVIFSPFLISAVILSRGDIQMTQSPSSLSASVGDRYITC SATSSITYMSWYQQK 60					
Db	1 mdfqvfifspflisavilsrqdiqmtspsslsasvgdrvtcsasssvsymhwyyqqk 60					
Qy	61 PGKAPKLILYDTSNLASGVPSPRSFGSGSGTDTLTISSQPEDFAVYCCQWSSYPLTFC 120					
Db	61 pgkapklliyrtsnlasgvpstsgsqtsgsqtldtissqpedfatyccqwsmy-tifg 118					
Qy	121 GGTKEIK 128					
Db	121 qgtkeik 128					
Db	121 qgtkeik 126					
RESULT 14						
AAV28375						
ID	AAV28375 standard;	Protein;	130 AA.			

XX AAY28375;  
 AC XX 04 - NOV -1999 (first entry)  
 DE Human chimeric anti-GM2 heavy chain version 1.  
 KW antibody; nucleotide; genomic; hypervariable region;  
 KW chimeric; light chain; heavy chain; CDR; Plasmid;  
 KW complementarity determining region.  
 KW OS Chimeric - Homo sapiens.  
 OS Chimeric - Mus sp.  
 XX Location/Qualifiers  
 FH 1..22  
 KEY Peptide /label= "signal peptide"  
 FT 23..130  
 Protein /label= "Mature heavy chain"  
 FT 46..55  
 Domain /label= "CDR1"  
 Domain 71..77  
 FT Domain 100..108  
 FT Domain /label= "CDR2"  
 FT /note= "Complementarity determining region"  
 FT XX US5939532-A.  
 PN PD 17-AUG-1999.  
 XX XX 95US-0483528.  
 PF 07-JUN-1995;  
 PR 07-JUN-1995;  
 PR 95US-0483528.  
 PR 07-SEP-1993;  
 PR 93US-0116778.  
 XX PA (KYOW ) KYOWA HAKKO KOGYO KK.  
 PA XX Hanai N, Hasegawa M, Koike M, Kuwana Y, Nakamura K;  
 PI PI Shitara K;  
 XX XX WPL: 1999-468416/39.  
 DR DR N PSDB; AA06225.  
 XX PT Chimeric human antibody expression vectors  
 XX PS Example 3; Column 125-127; 188PP; English.  
 XX This is the amino acid sequence derived from AAZ06275, which can be  
 CC amplified from the plasmid PBSL16 by the mutant primers AAZ06273 and  
 CC AAZ06274.  
 CC Chimeric human antibodies of the invention are useful in the treatment  
 CC of cancer, especially that which is of neural ectodermal origin.  
 CC In contrast to prior art constructs based on mouse monoclonal  
 CC antibodies, the chimeric human antibodies do not cause anti-mouse  
 CC immunoglobulin production.  
 CC The chimeric human antibodies have a prolonged half-life and a reduced  
 CC frequency of adverse effects when compared to mouse monoclonal  
 CC antibodies.  
 XX Sequence 130 AA;  
 SQ Query Match 99.2%; Score 584; DB 20; Length 130;  
 Best Local Similarity 89.1%; Pred. No. 2e-36;  
 Matches 114; Conservative 6; Mismatches 8; Gaps 0;  
 Gaps 0;  
 Db 1 MDFQVQITSFLLIASVILSRGDIQMTQSPESSLASVGDRVTITCSATSITMSWYQK 60  
 1 mhfqvqisflliasvilsrgdiqmtqspesslasvgdrvtitcsatsitmswqk 60  
 Qy 61 KGRAPKLLIYDTSNLASGVPSRFSGSGSTDYLISSISQPEDATYCCQWSSYPLTFG 120  
 Sequence 130 AA;

Db 61 pgkapklliytsnlasgvpsrfsgsgsqtfttisslpediaiyccqrrssyptfg 120  
 QY 121 GGTVEIK 128  
 Db 121 99tveik 128  
 XX RESULT 15  
 AAY28376 ID AAY28376 standard; Protein: 130 AA.  
 XX AC AAY28376;  
 XX DT 04 - NOV -1999 (first entry)  
 XX DE Human chimeric anti-GM2 light chain version 2.  
 XX DE antibody; nucleotide; genomic; hypervariable region;  
 XX KW antibody; nucleotide; genomic; hypervariable region;  
 KW chimeric; light chain; heavy chain; CDR; Plasmid;  
 KW complementarity determining region.  
 XX OS Chimeric - Homo sapiens.  
 OS Chimeric - Mus sp.  
 XX Location/Qualifiers  
 FH 1..22  
 KEY Peptide /label= "signal peptide"  
 FT 23..130  
 Protein /label= "Mature heavy chain"  
 FT 46..55  
 Domain /label= "CDR1"  
 Domain 71..77  
 FT Domain 100..108  
 FT Domain /label= "CDR2"  
 FT /note= "Complementarity determining region"  
 FT XX US5939532-A.  
 PN PD 17-AUG-1999.  
 XX XX 95US-0483528.  
 PF 07-JUN-1995;  
 PR 95US-0483528.  
 PR 07-SEP-1993;  
 PR 93US-0116778.  
 XX PA (KYOW ) KYOWA HAKKO KOGYO KK.  
 PA XX Hanai N, Hasegawa M, Koike M, Kuwana Y, Nakamura K;  
 PI PI Shitara K;  
 XX XX WPL: 1999-468416/39.  
 DR DR N PSDB; AA06278.  
 XX PT Chimeric human antibody expression vectors  
 XX PS Example 3; Column 129, 188PP; English.  
 XX This is the amino acid sequence derived from AAZ06278, which can be  
 CC amplified from the plasmid PBSL16 by the mutant primers AAZ06276 and  
 CC AAZ06277.  
 CC Chimeric human antibodies of the invention are useful in the treatment  
 CC of cancer, especially that which is of neural ectodermal origin.  
 CC In contrast to prior art constructs based on mouse monoclonal  
 CC antibodies, the chimeric human antibodies do not cause anti-mouse  
 CC antibodies, the chimeric human antibodies have a prolonged half-life and a reduced  
 CC immunoglobulin production.  
 CC The chimeric human antibodies have a prolonged half-life and a reduced  
 CC frequency of adverse effects when compared to mouse monoclonal  
 CC antibodies.  
 XX Sequence 130 AA;  
 SQ Query Match 99.2%; Score 584; DB 20; Length 130;  
 Best Local Similarity 89.1%; Pred. No. 2e-36;  
 Matches 114; Conservative 6; Mismatches 8; Gaps 0;  
 Gaps 0;  
 Db 1 mhfqvqisflliasvilsrgdiqmtqspesslasvgdrvtitcsatsitmswqk 60  
 Qy 61 KGRAPKLLIYDTSNLASGVPSRFSGSGSTDYLISSISQPEDATYCCQWSSYPLTFG 120  
 Sequence 130 AA;

Query	Match	Score	DB	Length
Qy	1 MDFOYQIFSFLIASVILSRGDIQMTQSPSSLSASVGDRVLTITCSATTSSITYMSHWQQK	584	20	130;
Db	1 mhfrqifqsflliasvilmrgdliqitqsbssllssvgdrvtitcsasssvymwyqqk	56	26	36;
Qy	61 PGKAPKLLIYDTSNAASGVPSRFSSSGSGHDYTLTISLLOPEDFTTYCQWQSSPLTFG	60	60	60
Db	61 pgkapklystslnasgypsrifgssgtftfliissqpediatyyeqgrssppytfg	60	120	120
Qy	121 GGTRVEIK	128		
Db	121 qgqkveik	128		

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